

**Notice of Allowability**

Application No.

10/736,746

Examiner

Ly T TRAN

Applicant(s)

MATSUI, SHINYA

Art Unit

2853

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/24/04.
2. ☒ The allowed claim(s) is/are 3,4,6 and 11-16.
3. ☒ The drawings filed on 17 December 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 12/17/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Since claims 15 and 16 are generic, all non-elected claims are rejoined.

### ***Prior Art cited***

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Irihara et al (USPN 6,428,143) discloses using white ink around the black ink (Fig.17). However, Irihara does not disclose to controlling such as using smaller amount of pigment ink or gradually decrease amount of low penetrable ink for peripheral of the recording medium and gradually increase the amount of high penetrable ink or dye ink toward the edge of the recording medium when the margin free is conducted or using only the dye ink at the peripheral area when the margin free is conducted as the present invention.
- Dudek et al. (USPN 5,568,169) discloses using fast and slow dry ink (Fig.4). However, Dudek does not disclose to controlling such as using smaller amount of pigment ink or gradually decrease amount of low penetrable ink for peripheral of the recording medium and gradually increase the amount of high penetrable ink or dye ink toward the edge of the recording medium when the

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margin free is conducted or using only the dye ink at the peripheral area when the margin free is conducted as the present invention.

- Meyer (USPN 6,239,817) discloses borderless printing (Abstract). However, Mayer does not disclose to controlling such as using smaller amount of pigment ink or gradually decrease amount of low penetrable ink for peripheral of the recording medium and gradually increase the amount of high penetrable ink or dye ink toward the edge of the recording medium when the margin free is conducted or using only the dye ink at the peripheral area when the margin free is conducted as the present invention.
- Capurso (USPN 6,168,259) discloses borderless printing (Column 4: line 55-60). However, Capurso does not disclose to controlling such as using smaller amount of pigment ink or gradually decrease amount of low penetrable ink for peripheral of the recording medium and gradually increase the amount of high penetrable ink or dye ink toward the edge of the recording medium when the margin free is conducted or using only the dye ink at the peripheral area when the margin free is conducted as the present invention.

***Allowable Subject Matter***

3. Claims 3, 4, 6, 11-16 are allowed.

The following is an examiner's statement of reasons for allowance:

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- The primary reason for the allowance of claims 1 and 6 is the inclusion of an inkjet apparatus is controlled as to gradually decrease the amount of the low penetrable ink to be applied and as to gradually increase the amount of the high penetrable ink to be applied toward an edge of a recording medium when forming an image even in a peripheral are of a recording medium including the edge. It is, these limitations found in each claims, as it is claimed in the combination, that has not been found, taught, or suggested by the prior art of record which makes these claims allowable over the prior art.
- The primary reason for the allowance of claims 11 and 13 is the inclusion of an inkjet apparatus wherein the recording controlling portion controls the ejection of ink in the margin free recording so that an amount of the pigment ink to be used is gradually decreased toward the edge of the recording medium and an amount of the dye ink to be used is gradually increase toward an edge of a recording medium when the margin free recording is conducted. It is, these limitations found in each claims, as it is claimed in the combination, that has not been found, taught, or suggested by the prior art of record which makes these claims allowable over the prior art.
- The primary reason for the allowance of claims 12 and 14 is the inclusion of an inkjet apparatus wherein the recording controlling

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portion control the margin free recording so as to permit the use of a pigment ink and a dye ink at the inner area and the use of only the dye ink at the peripheral area, when the margin free recording is conducted. It is, these limitations found in each claims, as it is claimed in the combination, that has not been found, taught, or suggested by the prior art of record which makes these claims allowable over the prior art.

- The primary reason for the allowance of claims 15 and 16 is the inclusion of an inkjet apparatus wherein the recording controlling portion controls the margin free recording so as to use a smaller amount of a pigment ink for the peripheral of the recording medium than for the inner of the recording medium, when the margin free recording is conducted. It is, these limitations found in each claims, as it is claimed in the combination, that has not been found, taught, or suggested by the prior art of record which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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**Conclusion**

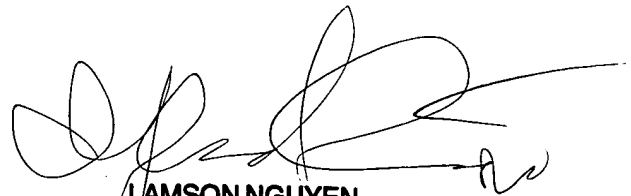
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

August 5, 2004

  
LAMSON NGUYEN  
PRIMARY EXAMINER  
08/05/04